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☐ 1. 20040086937. 09 Oct 01. 06 May 04. Novel method for identifying antibacterial compounds. Loferer, Hannes, et al. 435/7.1; G01N033/53.

☐ 2. 20030073134. 17 Jun 02. 17 Apr 03. Crystals and structures of 2C-methyl-D-erythritol 2,4-cyclodiphosphate synthase MECPS. Louie, Gordon V., et al. 435/7.1; 702/19 G01N033/53 G06F019/00 G01N033/48 G01N033/50.

☐ 3. WO 200061793A. Identifying antibacterial compounds, comprises identifying an antagonist or inhibitor of the expression of a gene encoding a polypeptide essential for bacterial growth or survival. JACOBI, A, et al. A61K038/00 A61K045/00 A61P031/04 C07K014/245 C12N015/09 C12Q001/02 C12Q001/18 C12Q001/68 G01N033/15 G01N033/50 G01N033/53.

☐ 4. EP 1043403A. Identifying antagonists of the expression of gene encoding bacterial growth polypeptide useful for treating bacterial infections or diseases, by evaluating transcription of the gene in the presence of test molecule. C07K014/245 C12Q001/18 C12Q001/68.

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J Mol Microbiol Biotechnol. 2001 Jul;3(3):483-9.
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Biochem J. 2001 Jan 1;353(Pt 1):59-67.
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4: Rohdich F, Wungsintaweekul J, Fellermeier M, Sagner S, Herz S, Kis K, Eisenreich W, Bacher A, Zenk MH. Related Articles

Cytidine 5'-triphosphate-dependent biosynthesis of isoprenoids: YgbP protei Escherichia coli catalyzes the formation of 4-diphosphocytidyl-2-C-methylerythritol.
Proc Natl Acad Sci U S A. 1999 Oct 12;96(21):11758-63.
PMID: 10518523 [PubMed - indexed for MEDLINE]

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1: Mol Med Today. 2000 Dec;6(12):470-4. Related Article

Mining bacterial genomes for antimicrobial targets.

Loferer H.

GPC Biotech AG, Fraunhoferstrasse 20, D-82152 Martinsried/Munich, Germ
Hannes.Loferer@gpc-biotech.com

The elucidation of whole-genome sequences is expected to have a revolution impact on the discovery of novel medicines. With the availability of complet genome sequences of more than 30 different species, the field of antimicrobi drug discovery has the opportunity to access a remarkable diversity of genon information. In this review, I summarize how microbial genomics has chang strategies of drug discovery by applying bioinformatics, novel genetic appro and genomics-based technologies, including analysis of gene expression usin DNA microarrays.

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1: Drug Discov Today. 2000 Mar;5(3):107-114. Related Article

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Integrated bacterial genomics for the discovery of novel antimicrobials.

Loferer I I, Jacobi I I, Posch I I, Gauss I I, Meier-Ewert I I, Seizinger I I

Genome Pharmaceuticals Corporation, Fraunhoferstrasse 20, D-82152 Martinsried/Munich, Germany.

Sequencing of bacterial genomes has been progressing with breathtaking spe Currently, the genomes of 23 bacterial species are sequenced, with approxim 40 more sequencing projects in progress. Industrial research is now facing th challenge of translating this information efficiently into drug discovery. This review will summarize the impact of bacterial genomics, bioinformatics and second-generation genomic technologies on target identification, assay development, lead optimization and compound characterization.

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